Annual Index for Volume 49 Materials Evaluation

Author Index

Achenbach, J. D., and I. Komsky, Self-Calibrating Ultrasonic Bridge for

Surface-Wave Measurements, No. 8, p 977
Allgaier, M. W., Visual Testing: Method with a Future, No. 9, p 1186 Atherton, D. L., O. Klink, and T. R. Schmidt, Remote-Field Eddy Current Responses to Axial and Circumferential Slots in Ferromagnetic Pipe (Technical Note), No. 3, p 356

Avioli, M. J., Jr. (see Shankar, R.), No. 10, p 1316

Ayers, W. A., Nonintrusive Infrared Testing of High-Voltage Switchgear (Back to Basics), No. 5, p 561 Azzarelli, L., E. Bozzi, M. Chimenti, O. Salvetti, L. D'Antonio, and

C. Sabatino, Distributed System for Quality Control of Aerospace Structures, No. 2, p 290

Barry, R. C., and R. A. Betz, Ultralow-Energy Real-Time Radiographic

Techniques for Composites, No. 4, p 474

Beck, K. H, Ultrasonic Transducer Focusing for Inspection of Cylindrical Material, No. 7, p 875; Errata, No. 12, p 1505

Berger, H. (see Placious, R. C.), No. 11, p 1419

Berger, H., Early Development of Neutron Radiography in the USA

(Yesteryears), No. 9, p 1202
Bernardi, R. T., and R. E. Slocum, Inspection of High-Atomic-Number Materials by Digital Radiography, No. 4, p 478
Bernstein, R. M. (see de la Veaux, R.), No. 8, p 1042

Betz, R. A. (see Barry, R. C.), No. 4, p 474

Betz, R. A. (see Placious, R. C.), No. 11, p 1419
Bhatt, V., P. Munshi, and J. K. Bhattacharjee, Application of Fractal Dimension for Nondestructive Testing, No. 11, p 1414; Errata, No. 12,

Bhattacharjee, J. K. (see Bhatt, V.), No. 11, p 1414

Bilgutay, N. M. (see Xin, J.), No. 8, p 987
Blessing, G. V., D. G. Eitzen, J. F. Henning, R. H. Kodama,
A. V. Clark, and R. E. Schramm, Precision Ultrasonic Measurements

on Thin Steel Parts, No. 8, p 982 Blincow, D. W., S. C. Dominey, J. J. Mahoney, and J. H. McCormick, In-Flight System for Helicopter Blade Inspection, No. 4, p 456

Bobo, S. N., Shearographic Strain Assessment for Inspection of Fossil-Fuel Power Plants, No. 10, p 1308

Borucki, J. S., Developments in Automated Magnetic Particle Testing Systems (Back to Basics), No. 3, p 324

Borup, S. W. (see Rodgers, J. M.), No. 5, p 566 Bossi, R. H., Trends in Radiography, No. 9, p 1177 Bozzi, E. (see Azzarelli, L.), No. 2, p 290

Brosey, W. D. (see Sundaresan, M. J.), No. 5, p 601

Broz, A. (see Seher, C.), No. 12, p 1547 Bueno, C. (see Placious, R. C.), No. 11, p 1419 Bush, D. (see Lewis, A.), No. 2, p 132

Bushlin, Y. (see Dickstein, P. A.), No. 12, p 1498 Bussière, J. F. (see Jen, C. K.), No. 6, p 701 Cabe, T. C. (see Olmsted, R. M.), No. 7, p 925

Campbell, J. (see Gibbs, M.), No. 1, p 51 Chabowski, L., How to Set Up and Use Borescopic Video Systems (Back to Basics), No. 11, p 1376

Chaplin, C. R. (see Weischedel, H. R.), No. 3, p 362 Chapman, C. E., A. Fahr, A. Pelletier, and D. R. Hay, Artificial Intelligence in the Eddy Current Inspection of Aircraft Engine Components (NDT Solution), No. 9, p 1090

Charlton, A. D., Silver-Recovery Applications for Better Effluent Manage-

ment (Back to Basics), No. 4, p 509

Chedid-Helou, F. A., and J. H. Hemann, Mathematical Modeling of Wave Propagation in Anisotropic Media, No. 6, p 708

Chern, E. J., Concept of Nondestructive Evaluation, No. 9, p 1228 Childers, D. E. (see DeOrsay, P. B.), No. 5, p 636

Chimenti, M. (see Azzarelli, L.), No. 2, p 290 Clark, A. V. (see Blessing, G. V.), No. 8, p 982 Cone, G. L. (see Zoughi, R.), No. 11, p 1385 Cooper, T., ASNT and Aerospace-What About the Next 50 Years? (1991 Mehl Honor Lecture), No. 12, p 1526

D'Antonio, L. (see Azzarelli, L.), No. 2, p 290

Davis, R. S., Nondestructive Testing of Ski Lifts and Wire Rope, No. 1, p 64

De Heering, Ph. (see Jen, C. K.), No. 6, p 701

De la Veaux, R., J. McGlinchey, and R. M. Bernstein, Fatigue Monitoring with Fuses, No. 8, p 1042

DeGuire, M. R. (see Roth, D. J.), No. 7, p 883

DeOrsay, P. B., and D. E. Childers, Historic Ship Inspected for Corrosion, No. 5, p 636

Dickstein, P. A., J. K. Spelt, A. N. Sinclair, and Y. Bushlin, Investiga-tion of Nondestructive Monitoring of the Environmental Degradation of Adhesive Joints, No. 12, p 1498
Dolhert, L. E. (see Roth, D. J.), No. 7, p 883

Dominey, S. C. (see Blincow, D. W.), No. 4, p 456

Donohue, K. D. (see Xin, J.), No. 8, p 987

Doyle, J. L., Jr., Laser-Based Surface Profilometry: An Emerging Technology for Nondestructive Evaluation (NDT Solution), No. 7, p 860; Erratum, No. 12, p 1505 Dykes, E. R., S. C. Mortenson, R. E. Kingston, and G. L. Stevens,

Automated Examination and Monitoring of Boiling Water Reactor Pressure Vessels, No. 10, p 1328

Eitzen, D. G. (see Blessing, G. V.), No. 8, p 982
Fahr, A. (see Chapman, C. E.), No. 9, p 1090
Flaherty, J., Overview of Eddy Current Data- and Image-Recording Methods (Back to Basics), No. 1, p 22

Foster, C. L. (see Morgan, B. C.), No. 10, p 1298

Freeman, W. E., and M. L. Turnbow, Miniature Linear Accelerator for Radiography of Nuclear Plant Components, No. 10, p 1340

Germain, J. L. (see Gouhier, E.), No. 2, p 279

Gibbs, M., and J. Campbell, Pulsed Eddy Current Inspection of Cracks under Installed Fasteners (NDT Solution), No. 1, p 51 Glodowski, K. A. (see Marchese, M.), No. 12, p 1481

Gouhier, E., and J. L. Germain, Locating Primary-to-Secondary Leaks in Pressurized Water Reactor Steam Generators by Using Helium Mass

Spectrometry, No. 2, p 279 Gould, R. W. (see Komorowski, J. P.), No. 12, p 1486 Green, A. T. (see Rodgers, J. M.), No. 5, p 566 Green, R. E., Jr. (see Huber, R. D.), No. 5, p 613

Grotz, K., and B. Lutz, Electromagnetic Multiparameter Determination of Material Characteristics, No. 1, p 40

Grover, P., Infrared Inspection of Boilers and Process Heaters (NDT Solution), No. 10, p 1272

Hagemaier, D. J., Nondestructive Testing Developments in the Aircraft Industry (Back to Basics), No. 12, p 1470

Hagemaier, D. J., Quality Indicators for Magnetic Particle Inspection, No. 3, p 346; see also letter, No. 11, p 1364

Hardison, R. R., ASNT Standard, No. 6, p 798
Hardison, R. R., Position Paper on ASNT Certifications, Standards, and Recommended Practices, No. 2, p 286

Hardy, G. L., Liquid Penetrant Inspection Technology: Today and Tomorrow, No. 9, p 1174

Hay, D. R. (see Chapman, C. E.), No. 9, p 1090

Hellier, C. J., Level III National Certification Program, No. 6, p 812

Hemann, J. H. (see Chedid-Helou, F. A.), No. 6, p 708 Henneke, E. G., II (see Russell, S. S.), No. 7, p 870 Henneke, E. G., II (see Sundaresan, M. J.), No. 5, p 601

Henning, J. F. (see Blessing, G. V.), No. 8, p 982 Hijeck, P. J. (see Rylander, L.), No. 10, p 1265 Huber, R. D., and R. E. Green, Jr., Noncontact Acousto-Ultrasonics Using Laser Generation and Laser Interferometric Detection, No. 5, p 613

Hyatt, R. W., G. E. Kechter, and R. G. Menton, Probability of Detection Estimation for Data Sets with Rogue Points, No. 11, p 1402

Jen, C. K., Ph. de Heering, P. Sutcliffe, and J. F. Bussière, Ultrasonic Monitoring of the Molten Zone of Single-Crystal Germanium, No. 6, p 701

Kautz, H. E., and B. A. Lerch, Preliminary Investigation of Acousto-Ultrasonic Evaluation of Metal-Matrix Composite Specimens, No. 5,

Kechter, G. E. (see Hyatt, R. W.), No. 11, p 1402 Keevil, W. R., History and Development of Rail Flaw Detector Cars, No. 1,

Kingston, R. E. (see Dykes, E. R.), No. 10, p 1328 Klink, O. (see Atherton, D. L.), No. 3, p 356

Kodama, R. H. (see Blessing, G. V.), No. 8, p 982 Komorowski, J. P., D. L. Simpson, and R. W. Gould, Enhanced Visual Technique for Rapid Inspection of Aircraft Structures, No. 12, p 1486

Komsky, I. (see Achenbach, J. D.), No. 8, p 977

Krause, R. J. (see Limaye, H. S.), No. 10, p 1312 Kropas, C. V., T. J. Moran, and R. N. Yancey, Effect of Composition on Density Measurement by X-Ray Computed Tomography (Technical Note), No. 4, p 487

Lavender, J. D., Toward 2000: International Quality Systems and Nondestructive Testing Certification Schemes, No. 4, p 518

Leaird, J. D. (see Morgan, B. C.), No. 10, p 1298 Lee, O. S., and J. H. Williams, Jr., Ultrasonic Wave Characterization of Polymers, No. 3, p 351

Lerch, B. A. (see Kautz, H. E.), No. 5, p 607

Lewis, A., and D. Bush, Resistivity Measurement for Evaluation of Coating Thickness (NDT Solution), No. 2, p 132

Li, X. (see Xin, J.), No. 8, p 987 Limaye, H. S., and R. J. Krause, Nondestructive Evaluation of Concrete with Impact-Echo and Pulse-Velocity Techniques, No. 10, p 1312 Lucier, R. D., Recent Work in Infrared Thermography: History, Results, and

Feedback (Back to Basics), No. 7, p 856 Lucier, R. D., Trends in Infrared Thermography, No. 9, p 1162

Lund, K. (see Thomsen, J. J.), No. 5, p 594

Lutz, B. (see Grotz, K.), No. 1, p 40 Mahoney, J. J. (see Blincow, D. W.), No. 4, p 456

Mann, J. M., L. W. Schmerr, and J. C. Moulder, Neural Network Inversion of Uniform-Field Eddy Current Data, No. 1, p 34

Marchese, M., and K. A. Glodowski, Real-Time Microfocus Radiography for Electronic Failure Analysis, No. 12, p 1481

McClung, R. W. (see Simpson, W. A.), No. 11, p 1409 McCormick, J. H. (see Blincow, D. W.), No. 4, p 456

McGlinchey, J. (see de la Veaux, R.), No. 8, p 1042 McKinney, W. E. J., Silver Concentrations in Radiographic Processing Wash Water and Waste Minimization, No. 4, p 482

Medulan, K. (see Shangari, S.), No. 10, p 1290 Menton, R. G. (see Hyatt, R. W.), No. 11, p 1402

Mihara, T., and M. Obata, Carburized Case Depth Estimation by Rayleigh-

Wave Backscattering, No. 6, p 696 Mizuno, M., Rotary-Probe Eddy Current Testing of Hot Steel Rods (NDT Solution), No. 6, p 691

Moran, T. J. (see Kropas, C. V.), No. 4, p 487

Morgan, B. C., J. D. Leaird, and C. L. Foster, Acoustic Emission Defect Detection in Hot-Reheat Piping, No. 10, p 1298

Morgner, W., Introduction to Thermoelectric Nondestructive Testing (Back to Basics), No. 9, p 1081; Errata, No. 12, p 1505

Mortenson, S. C. (see Dykes, E. R.), No. 10, p 1328 Moulder, J. C. (see Mann, J. M.), No. 1, p 34

Munshi, P. (see Bhatt, V.), No. 11, p 1414

Murray, T. G. (see Rylander, L.), No. 10, p 1265

Nance, R. A., Qualification of Nondestructive Testing Personnel in the Naval Nuclear Propulsion Program, No. 6, p 823 Newman, J. W., Shearographic Inspection of Aircraft Structure, No. 9,

Nowak, P. S. (see Zoughi, R.), No. 11, p 1385

Obata, M. (see Mihara, T.), No. 6, p 696

Oldberg, T., Concept of Concreteness and Abstraction in Estimating NDT Reliability, No. 2, p 297; Erratum, No. 12, p 1505

Olmsted, R. M., and T. C. Cabe, Remote Internal Video Inspection of Pipes and Vessels, No. 7, p 925

Palanisamy, R., Developments in Eddy Current Nondestructive Testing, No. 9, p 1158

Papadakis, E. P., Future of Ultrasonics, No. 9, p 1180

Papadakis, E. P., Nondestructive Evaluation and Statistical Process Control: A Two-Fisted Approach to Quality, No. 9, p 1100

Park, G. (see Shangari, S.), No. 10, p 1290

Pastorello, J., Study of Leak Detection Fluids, No. 8, p 1035

Pelletier, A. (see Chapman, C. E.), No. 9, p 1090

Peugeot, R. S., The X-Ray Generating System (Back to Basics), No. 6, p 676

Placious, R. C., D. Polansky, H. Berger, C. Bueno, C. L. Vosberg, R. A. Betz, and D. J. Rogerson, High-Density Glass Scintillator for Real-Time X-Ray Inspection (Technical Note), No. 11, p 1419

Polansky, D. (see Placious, R. C.), No. 11, p 1419

Randle, W. R., and B. D. Woody, Caution about Simulated Cracks in Steel for Eddy Current Testing, No. 1, p 44
Reighard, M. K., T. W. Van Oordt, and N. L. Wood, Rapid Ultrasonic

Scanning of Aircraft Structures (NDT Solution), No. 12, p 1506 Reilly, M., Ultrasonic Testing in the North Sea: A Short Story, No. 2, p 283

Rikard, D., Computerized Calculations for Radiography and Ultrasonics (NDT Solution), No. 4, p 452 Robinson, S. J., Issues Concerning the Disposal of Waste Penetrant Mate-

rials (Back to Basics), No. 8, p 962

Rodgers, J. M., A. T. Green, and S. W. Borup, Acousto-Ultrasonic Measurement of Internal Bond Strength in Composite Wood Products (NDT Solution), No. 5, p 566

Rogerson, D. J. (see Placious, R. C.), No. 11, p 1419

Rogovsky, A. J., Development and Application of Ultrasonic Dry-Contact and Air-Contact C-Scan Systems for Nondestructive Evaluation of Aerospace Composites, No. 12, p 1491

Roth, D. J., D. B. Stang, S. M. Swickard, M. R. DeGuire, and L. E. Dolhert, Review, Modeling, and Statistical Analysis of Ultrasonic Velocity-Pore Fraction Relations in Polycrystalline Materials, No. 7, p 883

Russell, S. S., and E. G. Henneke, II, Vibrothermographic Inspection of a

Glass-Fiber Epoxy Machine Part, No. 7, p 870
Rylander, L., T. G. Murray, and P. J. Hijeck, Integrated Reactor Vessel In-Service Inspection and Fracture Mechanics Crack-Growth Analysis (Back to Basics), No. 10, p 1265

Sabatino, C. (see Azzarelli, L.), No. 2, p 290
Sachse, W., Acoustic Emission: Current Status and Future Directions, No. 9, p 1153

Salvetti, Ö. (see Azzarelli, L.), No. 2, p 290 Schmerr, L. W. (see Mann, J. M.), No. 1, p 34 Schmidt, T. R. (see Atherton, D. L.), No. 3, p 356

Schock, H. E., European Standards and Nondestructive Testing Uses, Jr., No. 3, p 382

Schramm, R. E. (see Blessing, G. V.), No. 8, p 982

Seher, C., and A. Broz, National Research Program for Nondestructive Inspection of Aging Aircraft, No. 12, p 1547

Shangari, S., K. Medulan, and G. Park, Preparations for Reactor Vessel Inspection, No. 10, p 1290

Shankar, R., R. Williams, and M. J. Avioli, Jr., Knowledge-Based Ultrasonic Examination Assistant (Technical Note), No. 10, p 1316

Sharpe, W. N., Jr., and H. Zeng, Creep-Strain Measurement at Notch Roots in Zirconium Pressure-Tube Material, No. 10, p 1303

Shartouny, M. (see Umeagukwu, C.), No. 2, p 276

Sherlock, C. N., Leak Testing-Where Is It Going?, No. 9, p 1164 Siewert, T. A., Report on 1989 Actions by International Institute of Welding, No. 4, p 470

Simpson, D. L. (see Komorowski, J. P.), No. 12, p 1486

Simpson, W. A., Jr., and R. W. McClung, Quantitative Attenuation Technique for Materials Characterization, No. 11, p 1409 Sinclair, A. N. (see Dickstein, P. A.), No. 12, p 1498 Skeie, K., Shims: Artificial Flaw Standards for Magnetic Particle Testing

(NDT Solution), No. 3, p 332; see also Letters, No. 11, p 1363

Slocum, R. E. (see Bernardi, R. T.), No. 4, p 478 Spelt, J. K. (see Dickstein, P. A.), No. 12, p 1498

Stang, D. B. (see Roth, D. J.), No. 7, p 883 Stanley, R. K., Present State of Magnetic Nondestructive Testing Tech-

niques, No. 9, p 1169

Stevens, G. L. (see Dykes, E. R.), No. 10, p 1328

Sundaresan, M. J., E. G. Henneke, II, and W. D. Brosey, Acousto-Ultrasonic Investigation of Filament-Wound Spherical Pressure Vessels, No. 5, p 601 Sutcliffe, P. (see Jen, C. K.), No. 6, p 701

Swickard, S. M. (see Roth, D. J.), No. 7, p 883

Thielsch, H., In-Service Creep Strain Measurements for Life Prediction and Extension of Piping and Boiler Components (Back to Basics), No. 2,

Thomas, W. E., Recollections of ASNT's Early Years (Yesteryears), No. 9,

Thomsen, J. J., and K. Lund, Quality Control of Composite Materials by Neural Network Analysis of Ultrasonic Power Spectra, No. 5, p 594

Turnbow, M. L. (see Freeman, W. E.), No. 10, p 1340

Tyson, J., II, Real-Time Optical Leak Testing of Microelectronic Hermetic

Seals (NDT Solution), No. 8, p 970

Umeagukwu, C., and M. Shartouny, Technique to Improve Seam Tracking of Weld Joints by Using Acoustic Sensors (Technical Note), No. 2, p 276; Erratum, No. 12, p 1505

Van Oordt, T. W. (see Reighard, M. K.), No. 12, p 1506

Van Valkenburg, H. E., Retrospective of Ultrasonics (1982 Lester Honor Lecture), No. 9, p 1188

Vary, A., Acousto-Ultrasonics: Retrospective Exhortation with Bibliography,

No. 5, p 581

Vosberg, C. L. (see Placious, R. C.), No. 11, p 1419

Weischedel, H. R., and C. R. Chaplin, Inspection of Wire Ropes for

Offshore Applications, No. 3, p 362 Williams, J. H., Jr. (see Lee, O. S.), No. 3, p 351 Williams, R. (see Shankar, R.), No. 10, p 1316 Wood, N. L. (see Reighard, M. K.), No. 12, p 1506 Woody, B. D. (see Randle, W. R.), No. 1, p 44

Xin, J., K. D. Donohue, N. M. Bilgutay, and X. Li, Frequency-Diverse Geometric- and Arithmetic-Mean Filtering for Ultrasonic Flaw Detection, No. 8, p 987 Yancey, R. N. (see Kropas, C. V.), No. 4, p 487 Zeng, H. (see Sharpe, W. N.), No. 10, p 1303

Zoughi, R., G. L. Cone, and P. S. Nowak, Microwave Nondestructive Detection of Rebars in Concrete Slabs (NDT Solution), No. 11, p 1385

Keyword Index

ASNT Standard, R. R. Hardison, No. 6, p 798

ASNT and Aerospace-What About the Next 50 Years? (1991 Mehl Honor Lecture), T. Cooper, No. 12, p 1526

Accreditation of Nondestructive Testing Personnel, Professional (Opinion Paper), No. 11, p 1422

Acoustic Emission: Current Status and Future Directions, W. Sachse, No. 9, p 1153

Acoustic Emission Defect Detection in Hot-Reheat Piping, B. C. Morgan, J. D. Leaird, and C. L. Foster, No. 10, p 1298

Acoustic Sensors, Technique to Improve Seam Tracking of Weld Joints by Using, (Technical Note) C. Umeagukwu and M. Shartouny, No. 2, p 276; Erratum, No. 12, p 1505

Acousto-Ultrasonic Evaluation of Metal-Matrix Composite Specimens, Preliminary Investigation of, H. E. Kautz and B. A. Lerch, No. 5, p 607 Acousto-Ultrasonic Investigation of Filament-Wound Spherical Pressure Vessels, M. J. Sundaresan, E. G. Henneke, II, and W. D. Brosey, No. 5,

Acousto-Ultrasonic Measurement of Internal Bond Strength in Composite Wood Products (NDT Solution), J. M. Rodgers, A. T. Green, and S. W. Borup, No. 5, p 566

Acousto-Ultrasonics Using Laser Generation and Laser Interferometric Detection, Noncontact, R. D. Huber and R. E. Green, Jr., No. 5, p 613 Acousto-Ultrasonics, Development of ASTM Guide for, No. 5, p 643

Acousto-Ultrasonics: Retrospective Exhortation with Bibliography, A. Vary, No. 5, p 581

Adhesive Joints, Investigation of Nondestructive Monitoring of the Environmental Degradation of, P. A. Dickstein, J. K. Spelt, A. N. Sinclair,

and Y. Bushlin, No. 12, p 1498

Aerospace Composites, Development and Application of Ultrasonic DryContact and Air-Contact C-Scan Systems for Nondestructive Evaluation of,

A. J. Rogovsky, No. 12, p 1491

Aerospace Structures, Distributed System for Quality Control of, L. Azzarelli, E. Bozzi, M. Chimenti, O. Salvetti, L. D'Antonio, and C. Sabatino, No. 2, p 290 Aerospace - What About the Next 50 Years?, ASNT and (1991 Mehl Honor

Lecture), T. Cooper, No. 12, p 1526

Aircraft Engine Components, Artificial Intelligence in the Eddy Current Inspection of (NDT Solution), C. E. Chapman, A. Fahr, A. Pelletier, and D. R. Hay, No. 9, p 1090 Aircraft Industry, Nondestructive Testing Developments in the (Back to

Basics), D. J. Hagemaier, No. 12, p 1470

Aircraft, National Research Program for Nondestructive Inspection of Aging, C. Seher and A. L. Broz, No. 12, p 1547

Aircraft Structures, Enhanced Visual Technique for Rapid Inspection of, J. P. Komorowski, D. L. Simpson, and R. W. Gould, No. 12, p 1486 Aircraft Structures, Rapid Ultrasonic Scanning of (NDT Solution), M. K. Reighard, T. W. Van Oordt, and N. L. Wood, No. 12, p 1506 Application of Fractal Dimension for Nondestructive Testing, V. Bhatt,

P. Munshi, and J. K. Bhattacharjee, No. 11, p 1414
Artificial Flaw Standards for Magnetic Particle Testing, Shims: (NDT

Solution), K. Skeie, No. 3, p 332; see also Letters, No. 11, p 1363
Artificial Intelligence in the Eddy Current Inspection of Aircraft Engine
Components (NDT Solution), C. E. Chapman, A. Fahr, A. Pelletier, and D. R. Hay, No. 9, p 1090

Automated Examination and Monitoring of Boiling Water Reactor Pressure Vessels, E. R. Dykes, S. C. Mortenson, R. E. Kingston, and G. L. Stevens, No. 10, p 1328

Boiler Components, In-Service Creep Strain Measurements for Life Prediction and Extension of Piping and (Back to Basics), H. Thielsch, No. 2, p 123 Boilers and Process Heaters, Infrared Inspection of (NDT Solution),

P. Grover, No. 10, p 1272
Boiling Water Reactor Pressure Vessels, Automated Examination and Monitoring of, E. R. Dykes, S. C. Mortenson, R. E. Kingston, and

G. L. Stevens, No. 10, p 1328 Bond Strength in Composite Wood Products, Acousto-Ultrasonic Measurement of Internal (NDT Solution), J. M. Rodgers, A. T. Green, and S. W. Borup, No. 5, p 566

Borescopic Video Systems, How to Set Up and Use (Back to Basics), L. Chabowski, No. 11, p 1376

Carburized Case Depth Estimation by Rayleigh-Wave Backscattering, T. Mihara and M. Obata, No. 6, p 696

Caution about Simulated Cracks in Steel for Eddy Current Testing, W. R. Randle and B. D. Woody, No. 1, p 44

Certification Program, Level III National, C. J. Hellier, No. 6, p 812 Certification Schemes, Toward 2000: International Quality Systems and Nondestructive Testing, J. D. Lavender, No. 4, p 518

Certifications, Standards, and Recommended Practices, Position Paper on ASNT, R. R. Hardison, No. 2, p 286

Characterization, Quantitative Attenuation Technique for Materials, W. A. Simpson, Jr., and R. W. McClung, No. 11, p 1409 Coating Thickness, Resistivity Measurement for Evaluation of (NDT Solu-

tion), A. Lewis and D. Bush, No. 2, p 132 Company Celebrates 50 Years of Nondestructive Testing, No. 9, p 1216 Composite: see also Epoxy

Composite Materials by Neural Network Analysis of Ultrasonic Power Spectra, Quality Control of, J. J. Thomsen and K. Lund, No. 5, p 594 Composite Specimens, Preliminary Investigation of Acousto-Ultrasonic Eval-uation of Metal-Matrix, H. E. Kautz and B. A. Lerch, No. 5, p 607

Composite Wood Products, Acousto-Ultrasonic Measurement of Internal Bond Strength in (NDT Solution), J. M. Rodgers, A. T. Green, and S. W. Borup, No. 5, p 566

Composites, Development and Application of Ultrasonic Dry-Contact and Air-Contact C-Scan Systems for Nondestructive Evaluation of Aerospace, A. J. Rogovsky, No. 12, p 1491

Composites, Ultralow-Energy Real-Time Radiographic Techniques for, R. C. Barry and R. A. Betz, No. 4, p 474

Computed Tomography: see Tomography

Computerized Calculations for Radiography and Ultrasonics (NDT Solution), D. Rikard, No. 4, p 452 Concept of Concreteness and Abstraction in Estimating NDT Reliability,

T. Oldberg, No. 2, p 297; Erratum, No. 12, p 1505

Concept of Nondestructive Evaluation, E. J. Chern, No. 9, p 1228 Concrete Slabs, Microwave Nondestructive Detection of Rebars in (NDT Solution), R. Zoughi, G. L. Cone, and P. S. Nowak, No. 11, p 1385 Concrete with Impact-Echo and Pulse-Velocity Techniques, Nondestructive

Evaluation of, H. S. Limaye and R. J. Krause, No. 10, p 1312 Corrosion, Historic Ship Inspected for, P. B. DeOrsay and D. E. Childers,

Creep-Strain Measurement at Notch Roots in Zirconium Pressure-Tube Material, W. N. Sharpe, Jr., and H. Zeng, No. 10, p 1303

Creep Strain Measurements for Life Prediction and Extension of Piping and Boiler Components, In-Service (Back to Basics), H. Thielsch, No. 2, p 123

Cylindrical Material, Ultrasonic Transducer Focusing for Inspection of, K. H. Beck, No. 7, p 875; Errata, No. 12, p 1505

Development and Application of Ultrasonic Dry-Contact and Air-Contact C-Scan Systems for Nondestructive Evaluation of Aerospace Composites, A. J. Rogovsky, No. 12, p 1491

Development of ASTM Guide for Acousto-Ultrasonics, No. 5, p 643 Developments in Automated Magnetic Particle Testing Systems (Back to Basics), J. S. Borucki, No. 3, p 324

Developments in Eddy Current Nondestructive Testing, R. Palanisamy,

No. 9, p 1158
Distributed System for Quality Control of Aerospace Structures, L. Azzarelli, E. Bozzi, M. Chimenti, O. Salvetti, L. D'Antonio, and C. Sabatino, No. 2, p 290

Divers Institute of Technology (Education Close-Up), No. 8, p 1025 Early Development of Neutron Radiography in the USA (Yesteryears), H. Berger, No. 9, p 1202

Eddy Current Data, Neural Network Inversion of Uniform-Field, J. M. Mann, L. W. Schmerr, and J. C. Moulder, No. 1, p 34

Eddy Current Data- and Image-Recording Methods, Overview of (Back to

Basics), J. Flaherty, No. 1, p 22

Eddy Current Inspection of Aircraft Engine Components, Artificial Intelligence in the (NDT Solution), C. E. Chapman, A. Fahr, A. Pelletier, and D. R. Hay, No. 9, p 1090

Eddy Current Inspection of Cracks under Installed Fasteners, Pulsed (NDT Solution), M. Gibbs and J. Campbell, No. 1, p 51

Eddy Current Nondestructive Testing, Developments in, R. Palanisamy,

No. 9, p 1158 Eddy Current Responses to Axial and Circumferential Slots in Ferromagnetic Pipe, Remote-Field (Technical Note), D. L. Atherton, O. Klink, and

T. R. Schmidt, No. 3, p 356

Eddy Current Testing, Caution about Simulated Cracks in Steel for,
W. R. Randle and B. D. Woody, No. 1, p 44

Eddy Current Testing of Hot Steel Rods, Rotary-Probe (NDT Solution),

M. Mizuno, No. 6, p 691

Effect of Composition on Density Measurement by X-Ray Computed Tomography (Technical Note), C. V. Kropas, T. J. Moran, and R. N. Yancey, No. 4, p 487 Electromagnetic Multiparameter Determination of Material Characteristics,

K. Grotz and B. Lutz, No. 1, p 40

Electronic Failure Analysis, Real-Time Microfocus Radiography for, M. Marchese and K. A. Glodowski, No. 12, p 1481

Electronics: see also Microelectronics

Enhanced Visual Technique for Rapid Inspection of Aircraft Structures, J. P. Komorowski, D. L. Simpson, and R. W. Gould, No. 12, p 1486 Epoxy Machine Part, Vibrothermographic Inspection of a Glass-Fiber, S. S. Russell and E. G. Henneke, II, No. 7, p 870

European Standards and Nondestructive Testing Uses, H. E. Schock, Jr.,

No. 3, p 382

Fasteners, Pulsed Eddy Current Inspection of Cracks under Installed (NDT Solution), M. Gibbs and J. Campbell, No. 1, p 51

Fatigue Monitoring with Fuses, R. de la Veaux, J. McGlinchey, and R. M. Bernstein, No. 8, p 1042 Flaws Sized in Thick Steel, No. 10, p 1344

Fractal Dimension for Nondestructive Testing, Application of, V. Bhatt, P. Munshi, and J. K. Bhattacharjee, No. 11, p 1414

Frequency-Diverse Geometric- and Arithmetic-Mean Filtering for Ultrasonic Flaw Detection, J. Xin, K. D. Donohue, N. M. Bilgutay, and X. Li, No. 8, p 987

Future of Ultrasonics, E. P. Papadakis, No. 9, p 1180

Germanium, Ultrasonic Monitoring of the Molten Zone of Single-Crystal, C. K. Jen, Ph. de Heering, P. Sutcliffe, and J. F. Bussière, No. 6, p 701

Helicopter Blade Inspection, In-Flight System for, D. W. Blincow, S. C. Dominey, J. J. Mahoney, and J. H. McCormick, No. 4, p 456 Helium Mass Spectrometry, Locating Primary-to-Secondary Leaks in Pressurized Water Reactor Steam Generators by Using, E. Gouhier and

J. L. Germain, No. 2, p 279

High-Density Glass Scintillator for Real-Time X-Ray Inspection (Technical

Note), R. C. Placious, D. Polansky, H. Berger, C. Bueno, C. L. Vosberg, R. A. Betz, and D. J. Rogerson, No. 11, p 1419 Historic Ship Inspected for Corrosion, P. B. DeOrsay and D. E. Childers,

No. 5, p 636

History and Development of Rail Flaw Detector Cars, W. R. Keevil, No. 1, p 71

How to Set Up and Use Borescopic Video Systems (Back to Basics), L. Chabowski, No. 11, p 1376

Importance of Being Active-Internationally, The (Opinion Paper), No. 11, p 1430

In-Flight System for Helicopter Blade Inspection, D. W. Blincow, S. C. Dominey, J. J. Mahoney, and J. H. McCormick, No. 4, p 456 In-Service Creep Strain Measurements for Life Prediction and Extension of Piping and Boiler Components (Back to Basics), H. Thielsch, No. 2,

p 123 Infrared Inspection of Boilers and Process Heaters (NDT Solution), P. Grover, No. 10, p 1272
Infrared Testing of High-Voltage Switchgear, Nonintrusive (Back to Basics),

W. A. Ayers, No. 5, p 561 Infrared Thermography: History, Results, and Feedback, Recent Work in

(Back to Basics), R. D. Lucier, No. 7, p 856 Infrared Thermography, Trends in, R. D. Lucier, No. 9, p 1162

Infrared: see also Vibrothermographic

Inspection of High-Atomic-Number Materials by Digital Radiography, R. T. Bernardi and R. E. Slocum, No. 4, p 478

Inspection of Wire Ropes for Offshore Applications, H. R. Weischedel and

C. R. Chaplin, No. 3, p 362

Integrated Reactor Vessel In-Service Inspection and Fracture Mechanics Crack-Growth Analysis (Back to Basics), L. Rylander, T. G. Murray, and P. J. Hijeck, No. 10, p 1265

Interferometric Detection, Noncontact Acousto-Ultrasonics Using Laser Generation and Laser, R. D. Huber and R. E. Green, Jr., No. 5, p 613 Internationally, The Importance of Being Active- (Opinion Paper), No. 11, p 1430

Introduction to Thermoelectric Nondestructive Testing (Back to Basics),

W. Morgner, No. 9, p 1081; Errata, No. 12, p 1505

Issues Concerning the Disposal of Waste Penetrant Materials (Back to Basics), S. J. Robinson, No. 8, p 962

Knowledge-Based Ultrasonic Examination Assistant (Technical Note), R. Shankar, R. Williams, and M. J. Avioli, Jr., No. 10, p 1316

Laser Generation and Laser Interferometric Detection, Noncontact Acousto-Ultrasonics Using, R. D. Huber and R. E. Green, Jr., No. 5, p 613 Laser-Based Surface Profilometry: An Emerging Technology for Nondestructive Evaluation (NDT Solution), J. L. Doyle, Jr., No. 7, p 860;

Erratum, No. 12, p 1505 Leak Detection Fluids, Study of, J. Pastorello, No. 8, p 1035 Leak Testing of Microelectronic Hermetic Seals, Real-Time Optical (NDT

Solution), J. Tyson, II, No. 8, p 970 Leak Testing - Where Is It Going?, C. N. Sherlock, No. 9, p 1164 Leaks in Pressurized Water Reactor Steam Generators by Using Helium Mass Spectrometry, Locating Primary-to-Secondary, E. Gouhier and

J. L. Germain, No. 2, p 279 Level III National Certification Program, C. J. Hellier, No. 6, p 812 Life Prediction and Extension of Piping and Boiler Components, In-Service Creep Strain Measurements for (Back to Basics), H. Thielsch, No. 2,

p 123 Linear Accelerator for Radiography of Nuclear Plant Components, Miniature, W. E. Freeman and M. L. Turnbow, No. 10, p 1340

Liquid Penetrant Inspection Technology: Today and Tomorrow, G. L. Hardy,

No. 9, p 1174 Locating Primary-to-Secondary Leaks in Pressurized Water Reactor Steam Generators by Using Helium Mass Spectrometry, E. Gouhier and J. L. Germain, No. 2, p 279

Magnetic Nondestructive Testing Techniques, Present State of, R. K. Stanley, No. 9, p 1169

Magnetic Particle Inspection, Quality Indicators for, D. J. Hagemaier, No. 3, p 346; see also letter, No. 11, p 1364

Magnetic Particle Testing, Shims: Artificial Flaw Standards for (NDT Solution), K. Skeie, No. 3, p 332; see also Letters, No. 11, p 1363 Magnetic Particle Testing Systems, Developments in Automated, (Back to Basics), J. S. Borucki, No. 3, p 324

Materials for Advanced Tactical Fighter Revealed, No. 6, p 809

Mathematical Modeling of Wave Propagation in Anisotropic Media, F. A. Chedid-Helou and J. H. Hemann, No. 6, p 708 Microelectronic Hermetic Seals, Real-Time Optical Leak Testing of (NDT

Solution), J. Tyson, II, No. 8, p 970

Microwave Nondestructive Detection of Rebars in Concrete Slabs (NDT Solution), R. Zoughi, G. L. Cone, and P. S. Nowak, No. 11, p 1385 Miniature Linear Accelerator for Radiography of Nuclear Plant Components, W. E. Freeman and M. L. Turnbow, No. 10, p 1340

National Research Program for Nondestructive Inspection of Aging Aircraft,

C. Seher and A. L. Broz, No. 12, p 1547 Neural Network Inversion of Uniform-Field Eddy Current Data, J. M. Mann, L. W. Schmerr, and J. C. Moulder, No. 1, p 34

Neutron Radiography in the USA, Early Development of (Yesteryears), H. Berger, No. 9, p 1202

Noncontact Acousto-Ultrasonics Using Laser Generation and Laser Interferometric Detection, R. D. Huber and R. E. Green, Jr., No. 5, p 613

Nondestructive Evaluation and Statistical Process Control: A Two-Fisted

Approach to Quality, E. P. Papadakis, No. 9, p 1100

Nondestructive Evaluation of Concrete with Impact-Echo and Pulse-Velocity Techniques, H. S. Limaye and R. J. Krause, No. 10, p 1312

Nondestructive Monitoring of the Environmental Degradation of Adhesive Joints, Investigation of, P. A. Dickstein, J. K. Spelt, A. N. Sinclair, and Y. Bushlin, No. 12, p 1498 Nondestructive Testing Developments in the Aircraft Industry (Back to

Basics), D. J. Hagemaier, No. 12, p 1470

Nondestructive Testing of Ski Lifts and Wire Rope, R. S. Davis, No. 1, p 64 Nonintrusive Infrared Testing of High-Voltage Switchgear (Back to Basics), W. A. Ayers, No. 5, p 561

North Sea: A Short Story, Ultrasonic Testing in the, M. Reilly, No. 2, p 283 Nuclear Plant Components, Miniature Linear Accelerator for Radiography of,

W. E. Freeman and M. L. Turnbow, No. 10, p 1340 Nuclear Propulsion Program, Qualification of Nondestructive Testing Personnel in the Naval, R. A. Nance, No. 6, p 823

Offshore Applications, Inspection of Wire Ropes for, H. R. Weischedel and

C. R. Chaplin, No. 3, p 362 Optical Leak Testing of Microelectronic Hermetic Seals, Real-Time (NDT

Solution), J. Tyson, II, No. 8, p 970 Overview of Eddy Current Data- and Image-Recording Methods (Back to Basics), J. Flaherty, No. 1, p 22

Penetrant Inspection Technology: Today and Tomorrow, Liquid, G. L. Hardy, No. 9, p 1174

Penetrant Materials, Issues Concerning the Disposal of Waste (Back to Basics), S. J. Robinson, No. 8, p 962

Personnel: see Accreditation, Certification, Qualification, Training

Pipe, Remote-Field Eddy Current Responses to Axial and Circumferential Slots in Ferromagnetic (Technical Note), D. L. Atherton, O. Klink, and T. R. Schmidt, No. 3, p 356 Pipes and Vessels, Remote Internal Video Inspection of, R. M. Olmsted and

T. C. Cabe, No. 7, p 925

Piping, Acoustic Emission Defect Detection in Hot-Reheat, B. C. Morgan,

J. D. Leaird, and C. L. Foster, No. 10, p 1298

Piping and Boiler Components, In-Service Creep Strain Measurements for Life Prediction and Extension of (Back to Basics), H. Thielsch, No. 2, p 123

Position Paper on ASNT Certifications, Standards, and Recommended Practices, R. R. Hardison, No. 2, p 286

Precision Ultrasonic Measurements on Thin Steel Parts, G. V. Blessing, D. G. Eitzen, J. F. Henning, R. H. Kodama, A. V. Clark, and

R. E. Schramm, No. 8, p 982
Preliminary Investigation of Acousto-Ultrasonic Evaluation of Metal-Matrix Composite Specimens, H. E. Kautz and B. A. Lerch, No. 5, p 607 Preparations for Reactor Vessel Inspection, S. Shangari, K. Medulan, and

G. Park, No. 10, p 1290

Present State of Magnetic Nondestructive Testing Techniques, R. K. Stanley, No. 9, p 1169

Pressure Vessel: see also Reactor

Pressure Vessels, Acousto-Ultrasonic Investigation of Filament-Wound Spherical, M. J. Sundaresan, E. G. Henneke, II, and W. D. Brosey, No. 5, p 601

Probability of Detection Estimation for Data Sets with Rogue Points, R. W. Hyatt, G. E. Kechter, and R. G. Menton, No. 11, p 1402 Process Control: A Two-Fisted Approach to Quality, Nondestructive Evalu-

ation and Statistical, E. P. Papadakis, No. 9, p 1100 Professional Accreditation of Nondestructive Testing Personnel (Opinion Paper), No. 11, p 1422

Profilometry: An Emerging Technology for Nondestructive Evaluation, Laser-Based Surface (NDT Solution), J. L. Doyle, Jr., No. 7, p 860; Erratum, No. 12, p 1505

Pulsed Eddy Current Inspection of Cracks under Installed Fasteners (NDT Solution), M. Gibbs and J. Campbell, No. 1, p 51

Qualification of Nondestructive Testing Personnel in the Naval Nuclear Propulsion Program, R. A. Nance, No. 6, p 823

Quality Control of Aerospace Structures, Distributed System for, L. Azzarelli, E. Bozzi, M. Chimenti, O. Salvetti, L. D'Antonio, and C. Sabatino, No. 2, p 290

Quality Control of Composite Materials by Neural Network Analysis of Ultrasonic Power Spectra, J. J. Thomsen and K. Lund, No. 5, p 594

Quality Indicators for Magnetic Particle Inspection, D. J. Hagemaier, No. 3, p 346; see also letter, No. 11, p 1364

Quality, Nondestructive Evaluation and Statistical Process Control: A Two-Fisted Approach to, E. P. Papadakis, No. 9, p 1100

Quantitative Attenuation Technique for Materials Characterization, W. A. Simpson, Jr., and R. W. McClung, No. 11, p 1409 Radiographic Processing Wash Water and Waste Minimization, Silver Con-

centrations in, W. E. J. McKinney, No. 4, p 482

Radiographic Techniques for Composites, Ultralow-Energy Real-Time, R. C. Barry and R. A. Betz, No. 4, p 474
Radiography and Ultrasonics, Computerized Calculations for (NDT Solu-

tion), D. Rikard, No. 4, p 452

Radiography for Electronic Failure Analysis, Real-Time Microfocus, M. Marchese and K. A. Glodowski, No. 12, p 1481

Radiography in the USA, Early Development of Neutron (Yesteryears), H. Berger, No. 9, p 1202

Radiography, Inspection of High-Atomic-Number Materials by Digital, R. T. Bernardi and R. E. Slocum, No. 4, p 478

Radiography of Nuclear Plant Components, Miniature Linear Accelerator for, W. E. Freeman and M. L. Turnbow, No. 10, p 1340 Radiography, Trends in, R. H. Bossi, No. 9, p 1177

Radiography: see also X-Ray

Rail Flaw Detector Cars, History and Development of, W. R. Keevil, No. 1,

Rapid Ultrasonic Scanning of Aircraft Structures (NDT Solution), M. K. Reighard, T. W. Van Oordt, and N. L. Wood, No. 12, p 1506 Reactor Pressure Vessels, Automated Examination and Monitoring of Boiling Water, E. R. Dykes, S. C. Mortenson, R. E. Kingston, and G. L. Stevens, No. 10, p 1328

Reactor Safety, X-Rays Confirm, No. 4, p 526

Reactor Steam Generators by Using Helium Mass Spectrometry, Locating Primary-to-Secondary Leaks in Pressurized Water, E. Gouhier and J. L. Germain, No. 2, p 279

Reactor Vessel In-Service Inspection and Fracture Mechanics Crack-Growth Analysis, Integrated (Back to Basics), L. Rylander, T. G. Murray, and P. J. Hijeck, No. 10, p 1265

Reactor Vessel Inspection, Preparations for, S. Shangari, K. Medulan, and G. Park, No. 10, p 1290

Real-Time Microfocus Radiography for Electronic Failure Analysis, M. Marchese and K. A. Glodowski, No. 12, p 1481

Real-Time Optical Leak Testing of Microelectronic Hermetic Seals (NDT Solution), J. Tyson, II, No. 8, p 970

Real-Time: see Radiography, Radioscopy

Recent Work in Infrared Thermography: History, Results, and Feedback (Back to Basics), R. D. Lucier, No. 7, p 856

Recollections of ASNT's Early Years (Yesteryears), W. E. Thomas, No. 9, p 1218

Remote Internal Video Inspection of Pipes and Vessels, R. M. Olmsted and T. C. Cabe, No. 7, p 925

Remote-Field Eddy Current Responses to Axial and Circumferential Slots in Ferromagnetic Pipe (Technical Note), D. L. Atherton, O. Klink, and T. R. Schmidt, No. 3, p 356 Report on 1989 Actions by International Institute of Welding, T. A. Siewert,

No. 4, p 470 Resistivity Measurement for Evaluation of Coating Thickness (NDT Solution), A. Lewis and D. Bush, No. 2, p 132

Retrospective of Ultrasonics (1982 Lester Honor Lecture), H. E. Van Valkenburg, No. 9, p 1188 Review, Modeling, and Statistical Analysis of Ultrasonic Velocity—Pore

Fraction Relations in Polycrystalline Materials, D. J. Roth, D. B. Stang, S. M. Swickard, M. R. DeGuire, and L. E. Dolhert, No. 7, p 883 Rotary-Probe Eddy Current Testing of Hot Steel Rods (NDT Solution), M. Mizuno, No. 6, p 691

SPC: see Process

Self-Calibrating Ultrasonic Bridge for Surface-Wave Measurements, J. D. Achenbach and I. Komsky, No. 8, p 977

Shearographic Inspection of Aircraft Structure, J. W. Newman, No. 9, p 11.6

Shearographic Strain Assessment for Inspection of Fossil-Fuel Power Plants, S. N. Bobo, No. 10, p 1308

Shims: Artificial Flaw Standards for Magnetic Particle Testing (NDT Solution), K. Skeie, No. 3, p 332; see also Letters, No. 11, p 1363 Ship Inspected for Corrosion, Historic, P. B. DeOrsay and D. E. Childers,

No. 5, p 636 Silver Concentrations in Radiographic Processing Wash Water and Waste Minimization, W. E. J. McKinney, No. 4, p 482

Silver-Recovery Applications for Better Effluent Management (Back to Basics), A. D. Charlton, No. 4, p 509

Ski Lifts and Wire Rope, Nondestructive Testing of, R. S. Davis, No. 1,

South Seattle Community College (Education Close-Up), No. 6, p 829 Standard, ASNT, R. R. Hardison, No. 6, p 798

Standards and Nondestructive Testing Uses, European, H. E. Schock, Jr.,

No. 3, p 382 Standards, and Recommended Practices, Position Paper on ASNT Certifica-

tions, R. R. Hardison, No. 2, p 286 Steel Rods, Rotary-Probe Eddy Current Testing of Hot (NDT Solution),

M. Mizuno, No. 6, p 691 Steel for Eddy Current Testing, Caution about Simulated Cracks in, W. R. Randle and B. D. Woody, No. 1, p 44

Steel, Flaws Sized in Thick, No. 10, p 1344

Strain Assessment for Inspection of Fossil-Fuel Power Plants, Shearographic, S. N. Bobo, No. 10, p 1308

Strain Measurements for Life Prediction and Extension of Piping and Boiler Components, In-Service Creep (Back to Basics), H. Thielsch, No. 2, p 123

Study of Leak Detection Fluids, J. Pastorello, No. 8, p 1035

Technique to Improve Seam Tracking of Weld Joints by Using Acoustic Sensors (Technical Note), C. Umeagukwu and M. Shartouny, No. 2, p 276; Erratum, No. 12, p 1505

Thermoelectric Nondestructive Testing, Introduction to (Back to Basics),

W. Morgner, No. 9, p 1081; Errata, No. 12, p 1505 Thermography: see Infrared, Vibrothermographic

Thin Steel Parts, Precision Ultrasonic Measurements on, G. V. Blessing, D. G. Eitzen, J. F. Henning, R. H. Kodama, A. V. Clark, and R. E. Schramm, No. 8, p 982

Third-Party Program Audits Inspection Systems, No. 12, p 1551

Tips from the 1990 Technician of the Year, No. 10, p 1346 Tomography, Effect of Composition on Density Measurement by X-Ray Computed (Technical Note), C. V. Kropas, T. J. Moran, and R. N. Yancey, No. 4, p 487

Toward 2000: International Quality Systems and Nondestructive Testing

Certification Schemes, J. D. Lavender, No. 4, p 518 Training: see Divers, Personnel, South Seattle

Trends in Infrared Thermography, R. D. Lucier, No. 9, p 1162

Trends in Radiography, R. H. Bossi, No. 9, p 1177

Tube Material, Creep-Strain Measurement at Notch Roots in Zirconium Pressure-, W. N. Sharpe, Jr., and H. Zeng, No. 10, p 1303

Ultralow-Energy Real-Time Radiographic Techniques for Composites, R. C. Barry and R. A. Betz, No. 4, p 474

Ultrasonic Bridge for Surface-Wave Measurements, Self-Calibrating, J. D. Achenbach and I. Komsky, No. 8, p 977

Ultrasonic Dry-Contact and Air-Contact C-Scan Systems for Nondestructive Evaluation of Aerospace Composites, Development and Application of, A. J. Rogovsky, No. 12, p 1491

Ultrasonic Examination Assistant, Knowledge-Based (Technical Note), R. Shankar, R. Williams, and M. J. Avioli, Jr., No. 10, p 1316

Ultrasonic Flaw Detection, Frequency-Diverse Geometric- and Arithmetic-Mean Filtering for, J. Xin, K. D. Donohue, N. M. Bilgutay, and X. Li, No. 8, p 987

Ultrasonic Measurements on Thin Steel Parts, Precision, G. V. Blessing, D. G. Eitzen, J. F. Henning, R. H. Kodama, A. V. Clark, and R. E. Schramm, No. 8, p 982

Ultrasonic Monitoring of the Molten Zone of Single-Crystal Germanium, C. K. Jen, Ph. de Heering, P. Sutcliffe, and J. F. Bussière, No. 6, p 701

Ultrasonic Power Spectra, Quality Control of Composite Materials by Neural Network Analysis of, J. J. Thomsen and K. Lund, No. 5, p 594

Ultrasonic Scanning of Aircraft Structures, Rapid (NDT Solution), M. K. Reighard, T. W. Van Oordt, and N. L. Wood, No. 12, p 1506 Ultrasonic Testing in the North Sea: A Short Story, M. Reilly, No. 2, p 283 Ultrasonic Transducer Focusing for Inspection of Cylindrical Material, K. H. Beck, No. 7, p 875; Errata, No. 12, p 1505

Ultrasonic Velocity-Pore Fraction Relations in Polycrystalline Materials, Review, Modeling, and Statistical Analysis of, D. J. Roth, D. B. Stang, S. M. Swickard, M. R. DeGuire, and L. E. Dolhert, No. 7, p 883 Ultrasonic Wave Characterization of Polymers, O. S. Lee and

J. H. Williams, Jr., No. 3, p 351 Ultrasonics, Computerized Calculations for Radiography and (NDT Solu-

tion), D. Rikard, No. 4, p 452 Ultrasonics, Future of, E. P. Papadakis, No. 9, p 1180

Ultrasonics, Retrospective of (1982 Lester Honor Lecture), H. E. Van Valkenburg, No. 9, p 1188

Vibrothermographic Inspection of a Glass-Fiber Epoxy Machine Part, S. S. Russell and E. G. Henneke, II, No. 7, p 870

Video Inspection of Pipes and Vessels, Remote Internal, R. M. Olmsted and T. C. Cabe, No. 7, p 925

Video Systems, How to Set Up and Use Borescopic (Back to Basics), L. Chabowski, No. 11, p 1376

Visual Technique for Rapid Inspection of Aircraft Structures, Enhanced, J. P. Komorowski, D. L. Simpson, and R. W. Gould, No. 12, p 1486 Visual Testing: Method with a Future, M. W. Allgaier, No. 9, p 1186 Waste Minimization, Silver Concentrations in Radiographic Processing Wash

Water and, W. E. J. McKinney, No. 4, p 482

Waste Penetrant Materials, Issues Concerning the Disposal of (Back to Basics), S. J. Robinson, No. 8, p 962
Wave Backscattering, Carburized Case Depth Estimation by Rayleigh-,

T. Mihara and M. Obata, No. 6, p 696
Wave Characterization of Polymers, Ultrasonic, O. S. Lee and J. H. Williams, Jr., No. 3, p 351

Wave Measurements, Self-Calibrating Ultrasonic Bridge for Surface-, J. D. Achenbach and I. Komsky, No. 8, p 977

Wave Propagation in Anisotropic Media, Mathematical Modeling of, F. A. Chedid-Helou and J. H. Hemann, No. 6, p 708

Weld Joints by Using Acoustic Sensors, Technique to Improve Seam Tracking of (Technical Note), C. Umeagukwu and M. Shartouny, No. 2, p 276; Erratum, No. 12, p 1505

Welding, Report on 1989 Actions by International Institute of, T. A. Siewert, No. 4, p 470

Wire Rope, Nondestructive Testing of Ski Lifts and, R. S. Davis, No. 1,

Wire Ropes for Offshore Applications, Inspection of, H. R. Weischedel and C. R. Chaplin, No. 3, p 362

Wood Products, Acousto-Ultrasonic Measurement of Internal Bond Strength in Composite (NDT Solution), J. M. Rodgers, A. T. Green, and S. W. Borup, No. 5, p 566

X-Ray Computed Tomography, Effect of Composition on Density Measure-ment by (Technical Note), C. V. Kropas, T. J. Moran, and R. N. Yancey, No. 4, p 487

X-Ray Generating System, The (Back to Basics), R. S. Peugeot, No. 6,

X-Ray Inspection, High-Density Glass Scintillator for Real-Time (Technical Note), R. C. Placious, D. Polansky, H. Berger, C. Bueno, C. L. Vosberg, R. A. Betz, and D. J. Rogerson, No. 11, p 1419

X-Ray: see also Radiography, Radioscopy, Tomography X-Rays Confirm Reactor Safety, No. 4, p 526

Zirconium Pressure-Tube Material, Creep-Strain Measurement at Notch Roots in, W. N. Sharpe, Jr., and H. Zeng, No. 10, p 1303